

REMARKS

Claims 1-18 are in this application and are presented for consideration. Claims 1-7 have been amended, and new claims 11-18 have been added.

The specification and claims have been amended to address the Examiner's objections, incorporate the Examiner's suggestions and to place the application in better form. The claims have also been amended to further highlight and more clearly point out the important features of the invention. Applicant thanks the Examiner for the careful reading of this application, for pointing out discrepancies, and for providing suggestions.

Claims 1-3 and 5-7 has been rejected as being anticipated by Backstrom, US patent 4,338,147.

New claim 11 has been added which sets forth the step of applying an adhesive to a radially inward side of the second ribbon before the second ribbon is wound on top of the first ribbon. Applicant finds no teaching nor suggestion of this feature in US patent 4,338,147.

The rejection appears to equate the adhesive of the present invention with element 9 of US patent 4,338,147. However element 9 is not applied to a radial inward side of any ribbon in US 4,338,147. Furthermore, element 9 of US 4,338,147 is not applied to any ribbon before that ribbon is wound on top of a first ribbon. Therefore claim 11 is not anticipated by US 4,338,147.

Claim 11 also sets forth the step of determining a tube cut position on the tube where the tube will be cut. Claim 11 then further sets forth determining a ribbon cut position which will be arranged at the tube cut position when the ribbon is wound to form the tube. Applicant

finds no teaching nor suggestion in US 4,338,147 of cutting a tube, and therefore no teaching nor suggestion of determining a tube cut position or a ribbon cut position. Claim 11 therefore further defines over US 4,338,147.

Claim 1 sets forth that the supplementary quick setting glue is applied to the lower surface of the last ribbon forming the tube. As specified on page 5, lines 3-4 of the originally filed description, the lower surface of the ribbon is that destined to look at the spindle 1. Furthermore, on page 5, lines 7-8 of the originally filed description, it is specified that the upper surface of the last ribbon defines the external side of the tube. Again, on page 5, lines 21-24 of the originally filed description, it is specified that even if the tube is formed by more than two ribbons, the supplementary quick setting glue is applied to the lower surface of the last ribbon.

The originally filed description specifies that the supplementary quick setting glue is applied to the lower surface of the last ribbon forming the tube and that the lower surface is turned towards the spindle 1.

Furthermore, the originally filed description specifies that the last ribbon has an upper surface defining the external side of the cardboard tube.

Thus, it is clear that the supplementary quick setting glue is not applied to the external side of the cardboard tube in the present invention.

US 4,338,147 discloses a cardboard tube-forming machine comprising a nozzle (7) destined to apply glue on the upper surface of the last ribbon forming a tube, i.e. on the outer surface of the tube (see for example col.1, lines 36-40, col.2, lines 45-47).

The apparatus disclosed in US 4,338,147 is intended to produce a cardboard tube whose

outer surface is provided with glue which gives the tube the required adhesion. This is because the tube is to be used in a rewinding machine wherein a web is glued on a tube and the glue provided on the tube is heated before gluing the web to the tube (see col.2, lines 23-29: *With the help of a heating and pressing device 22 which is introduced through the gap between the supporting drum 15 and the roll 18 the paper web is pressed against the core 17 and the glue on the core is heated through the paper web until it melts. When the device 22 is removed the glue congeals and the web is secured to the core.*).

On the other hand, if one wants to secure the leading end of a web to a tube, where onto the latter is to be wound to form a roll, one of the known solutions is to apply a preset amount of glue on the tube (see US 4,338,147 col.1, lines15-23: *In the production and treatment of various webs of material, e.g. in the paper and textile industries, the webs are usually wound into rolls on cores which are mostly made of cardboard. Before the winding is initiated the leading end of the web must be secured to the core. This is usually done by using adhesives, whereby either the core or the side of the web facing the core is coated with glue or an adhesive stripe is introduced between the web and the core.*).

Finally, the fact that US 4,338,147 refers to the gluing of the outer side of a cardboard tube is clearly specified in the preamble of both claims 1 and 2 thereof:

1. *In the method of winding a web of material into a web roll upon a rotatably driven core having a hot-melt adhesive deposited upon an outer surface of the core,*
2. *In an apparatus for winding a web of material onto a web roll upon a core having a hot-melt adhesive deposited upon an outer surface of the core...*

Since it is quite clear that claim 1 and US 4,338,147 do not apply element 9/ glue on the same side of a ribbon, US 4,338,147 can not anticipate all of the method steps of claim 1. Claim 1 therefore also defines over US 4,338,147.

It also noted that, according to the present invention, the supplementary glue is applied at intervals corresponding to a preset length of said last ribbon (see page 8, lines 12-21).

As specified on page 2, line 17 and on page 7 lines 9-20 of the originally filed description, since the supplementary quick setting glue is applied astride of a section (ST) subsequently involved by the action of cutting means acting downstream of the spindle 1, the cleavage phenomenon characteristic of the tubes produced by conventional machines is avoided. This is obtained by activating the injectors (30) for a preset time (see page 6, line 24 and page 8, lines 21-23).

US 4,338,147 is silent about cleavage involving the cardboard tubes and it is silent about supplementary gluing of the lower surface of the last ribbon forming the cardboard tube. Also US 4,338,147 does not disclose supplementary gluing at intervals corresponding to a preset length of the last ribbon.

The Examiner assumes that the nozzle 7 of US 4,338,147 operates at intervals because the glue strip 9 seems as a broken line. However the specification does not disclose intervals and what appears to be broken lines in the drawings is more likely caused by bad drafting of the drawings. Therefore the intervals set forth in claim 1 are not fully disclosed in US 4,338,147 so as to be enabling, and US 4,338,147 therefore does not anticipate this feature.

Furthermore, the Examiner assumes that in US 4,338,147 the glue is distributed (via 9)

in proximity to both longitudinal edges of the ribbons. Indeed, the glue strip 9 shown in Fig. 1 of US 4,338,147 is shown in a central position between the (outer or upper) longitudinal edges of the last ribbon. Therefore the glue strip 9 in US 4,338,147 is not in proximity to longitudinal edges, but is at the position that is most distant from the longitudinal edges of the ribbons. This is the exact opposite of the definition of proximity. Therefore this feature of claim 1 also causes claim 1 to define over US 4,338,147.

Claims 15 and 18 also set forth in the feature of the adhesive being applied at a longitudinal edge. These claims therefore also further define over US 4,338,147.

New claims 12 and 17 set forth further features regarding the step of determining the cut positions. US 4,338,147 does not disclose determining any cut positions, and therefore these claims further define over US 4,338,147.

If the Examiner has any comments or suggestions which would further favorable prosecution of this application, the Examiner is invited to contact applicant's representative by telephone to discuss possible changes.

At this time applicant respectfully requests reconsideration of this application, and based on the above amendments and remarks, respectfully solicits allowance of this application.

Respectfully submitted
for Applicant,



By: _____
Theobald Dengler
Registration No. 34,575
McGLEW AND TUTTLE, P.C.

TD:tf

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Attached: Substitute Specification
 Marked-Up Specification

DATED: October 10, 2008
 BOX 9227 SCARBOROUGH STATION
 SCARBOROUGH, NEW YORK 10510-9227
 (914) 941-5600

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